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Document Number 3

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File: USPT

Jun 13, 1989

US-PAT-NO: 4839430

DOCUMENT-IDENTIFIER: US 4839430 A

TITLE: Preparation of triblock copolymers

DATE-ISSUED: June 13, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dennis; Kent S.	Midland	MI	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
The Dow Chemical Company	Midland	MI	N/A	N/A	02

APPL-NO: 7/ 033444

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US-CL-CURRENT: 525/280; 525/242, 525/256, 525/258, 525/271, 525/314, 525/901, 525/941

FIELD-OF-SEARCH: 525/280, 525/271, 525/242, 525/314, 525/941

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3598887</u>	August 1971	Darcy et al.	525/271
<u>3639523</u>	February 1972	Hayter et al.	525/280
<u>3770712</u>	November 1973	Schwab	525/280
<u>3891721</u>	June 1975	Prudence	525/271
<u>3956426</u>	May 1976	Shepers	525/271
<u>3959412</u>	May 1976	Oberlin	525/271
<u>3992483</u>	November 1976	Willis	525/271
<u>4010226</u>	March 1977	Crossland	525/271

ART-UNIT: 151

PRIMARY-EXAMINER: Seccuro; Carman J.

ABSTRACT:

Block copolymers are prepared by providing an initial anionically polymerizable monomer portion; anionically polymerizing the initial monomer portion to provide polymer chains with living ends, and contacting the polymer chains with m-bis(phenylethenyl)benzene (PEB), a coupling agent, to bring about substantial coupling. In preferred embodiments the polymer chain living ends are capped with an

embodiments the polymer chain living ends are capped with an .alpha.-alkylstyrene or a ring-alkyl substituted .alpha.-alkylstyrene, wherein the .alpha.-alkyl groups contain between about 1 to about 20 carbon atoms, and the ring-alkyl groups have at least 2 carbon atoms. The coupling agents employed with the capped polymer chain living ends include PEB, p-dibromoxylene, terephthaloyl chloride, 1,4-dibromobutene; and the multifunctional epoxides, multifunctional isocyanates, multifunctional aziridines, multifunctional aldehydes, multifunctional ketones, multifunctional anhydrides, multifunctional esters, and polyhalides.

23 Claims, 0 Drawing figures

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